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Extern host site: Miracle Tool America/ MA Ford,  
Davenport, Iowa

## Part I: General Overview of Business

- Miracle Tool America is a joint venture company founded by Mitsubishi Materials Corp LLC (Japan) and MA Ford Mfg. Co. (Davenport, IA), Inc. in 2001 The company manufactures industrial drill bits used in aerospace, automobile, implement and other industries.

## Part II: Job Specifics

- Create a Standard Operation Procedure (SOP) for each machine that meets requirements of the company and OSHA
- Interview each operator for feedback to get accurate information for each machine

## Part III: Introduce the Problem

- Design a safe way to operate the machines in the woods lab
- Do a standard operating procedure for the different machines

## Part IV: Background

- Knowledge of how the machine operates.
- What operations can be preformed on each machine
- Information from safety lectures, videos, and textbooks to get all of the information about the different machines

## Part V: Business Solution

- Operators explain the operating procedure of each machine, which is then written into a SOP. The SOP includes pictures to give a visual about key parts and/or locations of specific areas.
- Non-operators are “trained” on the machine for SOP accuracy.

## Part VI: Student Solutions

- Students write a SOP for the machines they use in the woods shop.
- Create YouTube video students can access as a refresher before using a machine that they have not used in awhile.